BRUHAT BANGALORE MAHANAGARA PALIKE

Name of the Work: Construction of Bridge over Storm Water Drain at 12th K Main Road, Muthyala Nagar in JP Park Ward No. 17

Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
1	KSRRB M200-13.1. **Dismantling of existing structures** like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. II. B.Dismantling Stone Masonry in cement mortar (P.No.148, I.No.18.27 of PW,P&IWTD SR 2013-14)								
	Dismantling Wall	Cum	2	12.00	0.90	1.50	**32.40**	345.82	**11205.00**
2	KSRRB M200-13.1. **Dismantling of existing structures** like culverts, Bridges, retaining walls and other structure comprising of masonry, cement concrete, wood work, steel work, including T&P and scaffolding wherever necessary, sorting the dismantled material, disposal of unserviceble material and stacking the serviceble material with all lifts complete as per specifications. II. By mechanical means, A. **Cement concrete Grade M-15 & M-20** (P.No.147, I.No.18.20 of PW,P&IWTD SR 2013-14)								
	Damaged Concrete								
	Bed Concrete	Cum	1	12.00	4.50	0.15	8.10		
	Coping		2	12.00	0.60	0.10	1.44		
							9.54	451.66	**4309.00**
3	KSRRB M2100-2.1 **Earthwork in excavation for foundation** of structures as per drawing and technical specifications. Including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications, **B.Mechanical Means (i) Depth upto 3m** MORTH Specification No.304 (P.No.224, I.No.27.4 of PW, P&IWTD SR 2013-14)								
	For Bridge Portion	Cum	1	11.80	6.60	1.00	77.88		
	For Approach Slab		2	10.50	3.60	0.50	37.80		
							115.68	167.67	**19396.00**
4	KSRB 2.8 : Providing and Filling in foundation with **granite trap broken metal** 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift. complete as per specifications. specification. No. KBS (P.No.6, I.No.2.15 of PW, P&IWTD SR 2013-14)								
	For soling	Cum	1	10.80	6.60	0.3	21.38	1776.60	**37991.00**

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Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
5	KSRRB M2100-13 **Plain / reinforced cement concrete M15** with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.84cum and fine aggregates @0.56 cum in Open foundation complete as per Drawing and technical specifications. MORTH Specification No.1500,1700 & 2100 (P.No.226, I.No.27.24 of PW, P&IWTD SR 2013-14)								
	For Bed concrete below box segment	Cum	1	10.80	6.20	0.15	10.04		
	For Approach Slab		2	10.50	3.60	0.15	11.34		
							21.38	4271.40	**91340.00**
6	KSRRB M2100-20.2: Plain / Reinforced Cement Concrete in **Open Foundation** with OPC cement design mix M35 @ 390kgs, with 20mm and downsize graded granite metal coarse aggregates @ 0.68cum and fine aggregates @ 0.45cum, with superplastisisers @ 3lts confirming to IS 9103-1999 Reaffirmed-2008. Case II : with Batching Plant, Transit Mixer and Concrete Pump MORTH Specification No. 1500, 1700 & 2100 (P.No.228, I.No.27.37 of PW, P& IWTD SR 2013-14)								
	Bottom Slab	Cum							
	For Bed concrete below box segment		1	10.50	5.80	0.45	27.41		
	Haunch Portion	0.5	2	10.50	0.30	0.30	0.95		
							28.35	5611.68	**159091.00**
7	KSRRB M2200-5.18: **Design mix M35** with OPC cement @390kgs, with 20mm and downsize graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisizers @3lts confirming to IS9103-1999 Reaffirmed-2008 i) Upto 5m height (P.No.232, I.No.28.7.18 of PW, P& IWTD SR 2013-14)								
	Box Portion side wall	Cum	2	10.50	0.45	1.50	**14.18**	6245.64	**88532.00**
8	KSRRB M2200-6 Supplying, fitting and placing **TMT bar Fe415 reinforcement in sub-structure** complete as per drawing and Technical specifications complete as per specifications MORTH Specification No.1600 & 2200 (P.No.233, I.No.28.8.1 of PW, P& IWTD SR 2013-14)								
	Consider 150kg/cum	MT	--	--	--	--	**6.24**	68432.04	**426811.00**
9	KSRRB M2300-8.1 . Furnishing and Placing Reinforced/ Prestressed cement concrete in super-structure as per drawing and Technical Specification complete as per specifications. D. **RCC / PSC with OPC cement design mix M35** @ 390kgs, with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum, with superplastisiser@3lts confirming to IS9103-1999 Reaffirmed-2008, Case - II : Using Batching Plant, Transit Mixer & Concrete Pump MORTH Specification No. 1500,1600 & 1700 (P.No.241, I.No.29.16.1 of PW, P& IWTD SR 2013-14)								
	Top Slab	Cum	1	10.50	5.40	0.45	25.52		
	Haunch Portion	0.5	2	10.50	0.30	0.30	0.95		
	Carbel Portion		2	10.50	0.50	0.49	5.12		
	Crash barrier		2	10.50	0.15	1.18	3.70		
			2	10.50	0.94	0.23	4.43		
							39.71	6391.44	**253802.00**

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Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
10	KSRRB M2300-14: Supplying , fitting and placing **TMT bar Fe 415 reinforcement in super - structure** complete as per drawing and technical specifications complete as per specifications MORTH Specification No.1600 (P.No.245, I.No.29.29 of PW, P& IWTD SR 2013-14)								
	Consider 150kg/cum	MT	--	--	--	--	**5.96**	69209.64	**412244.00**
11	KSRRB M2700-7: **Reinforcement cement concrete M30 approach slab** including reinforcement and form work complete as per drawing and Technical specification complete as per specifications. MORTH Specification No.1500, 1600, 1700 & 2704 (P.No.255, I.No.32.7 of PW, P&IWTD SR 2013-14)								
	For Approach Slab	Cum	2	10.50	3.50	0.35	25.73	10567.80	**271857.00**
12	KSRRB M2200-9: Providing and laying of **Filter media with granular material / stone crushed aggregates** satisfying the requirements laid down in clause 2500.4.2.2 of MORTH specifications to a thickness of not less than 600mm with smaller size towards the soil and bigger size towards the wall and provided over the entire surface behind abutment, wing wall and return wall to the full height compacted to a firm condition complete as per drawing and Technical Specification complete as per specfiications MORTH Specification No.710.1.4 of IRC :78 & 2200 (P.No.233, I.No.28.13 of PW, P&IWTD SR 2013-14)								
	Both sides of the box portion	Cum	2	10.50	0.60	2.00	**25.20**	939.60	**23678.00**
13	KSRRB M2200-8.1: Back filing behind abutment, wing wall and return wall complete as per drawing and Technical Specification complete as per specifications A. **Granular Material** No. 710.1.4 of IRC : 78 & 2200 (P.No.233, I.No.28.11 of PW, P&IWTD SR 2013-14)								
	Both sides of the box portion	Cum	2	10.50	0.30	2.00	**12.60**	284.50	**3585.00**
14	KSRRB M2200-8: Providing **weep holes** in Brick masonry / Plain / **Reinforced concrete** abutment, wing wall/ return wall with 100mm dia AC pipe, extending extending through the full width of the structure with slope of 1 V :20H towards drawing foce. Complete as per drawing and Technical Specifications complete as per specifications. MORTH Specification No.2706 & 2200 (P.No.233, I.No.28.10 of PW, P&IWTD SR 2013-14)								
	Box portion side wall	Nos/Rmt	21	--	--	--	**21.00**	164.16	**3447.00**
15	KSRB 5.3-3: Providing and constructing **granite size stone masonry** in basement with cement mortor 1:6, edges of stones chistle dressed in courses not less than 15cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.26, I.No.5.9 of PW, P&IWTD S.R 2013-14)								
	SSM Wall	Cum	4	5.00	0.90	1.80	**32.40**	5307.12	**171951.00**

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Sl. No.	Description of work	Unit	No.	Length m	Breadth m	Depth m	Quantity	Rate in Rs.	Amount in Rs.
16	KSRB 4-1.6: Providing and laying in position **plain cement concrete of mix M 15** with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2013-14)								
	Coping	Cum	4	5.00	0.60	0.100	1.20	4779.00	5735.00
									1984974.00
17	Miscellaneous & Rounding off							14028.20	5026.00
	Nineteen Lakhs Ninty Nine thousand only							Total Amount	1990000.00

19,99,000.00

Certificate.

1 The workspot was inspected and work is found to be necessary.
2 The area comes within the Bruhat Bangalore Mahanagara Palike limits.
3 The rates adopted based on the PWD SR, Bangalore circle for year 2013-14.
4 The provisions made in the estimate are necessary and essential.

Assistant Engineer | Assistant Executive Engineer | Executive Engineer

ADMINISTRATIVE APPROVED

Rs. 19.99.000/- (Nineteen lakhs ninty nine thousand Rupees only) ordered
to head P-2434
Sl.No. 2807
AS.NO. 2807/13-14 dt. 18/01/2014
TA, AO (R.R.N.)

ನಂ.: 291 ದಿನಾಂಕ: 18/1/14
ರೂ. 1999000/- Nineteen lakh Ninty Nine thousand only
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ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಜಿ.ಎಂ.ಪಿ., ರಾಜರಾಜೇಶ್ವರಿ
ನಗರ ವಿಭಾಗ, ಬೆಂಗಳೂರು

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